IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:	Anthony C. Spearman et al.	**DATE MAILED:**	May 9, 2004
SERIAL NO.:	09/660,709	**DOCKET NO.:**	000102.0001
FILED:	September 13, 2000	**ART GROUP:**	2663
FOR:	WIRELESS PROVISIONG DEVICE	**EXAMINER:**	T. Nguyen

I hereby certify that this correspondence is being transmitted, via facsimile, to the US Patent and Trademark Office, on **May 9, 2004**, addressed to Technology Center 2600, Before Final Facsimile No.: 703.872.9314.

Tony D. Alexander
(Name of Applicant, Assignee, or Registered Representative)

Tony D. Alexander

May 9, 2004
(Date of Signature)

AMENDMENT AND RESPONSE

Dear Sir:

A Non-Final Office Action was mailed on **November 10, 2003**, in the above-referenced case. The period for response to the Office Action was set to expire on February 10, 2004. With the granting of the accompanying Petition, the period for response will be extended to expire on **May 10, 2004**, therefore, this response is timely filed.

The U.S. Patent & Trademark Office is authorized to charge any deficiency or to credit any overpayment for any fees required for this filing to Deposit Account No.50-1949.

In response to the above-referenced Office Action, please amend the application in the claims as follows *(support for the following claim amendments is found in the application specification at, e.g., page 3 line 18 through page 5 line 13; page 6 lines 2-18; page 19 line 13 through page 20 line 2; page 20 lines 3-16; page 20 line 19 through page 21 line 14; page 23 lines 11-23; and page 26 lines 3-13)*:

1. (Previously Amended): A wireless provisioning device for use in public domain networks wherein the wireless provisioning device is accessible by a user of mobile computing devices, comprising:

a chassis;

at least one network card;

at least one wireless card;

at least one processor;

an operating system, the operating system operably configured in the chassis to control the at least one network card, the at least one wireless card and the at least one processor, which are operatively coupled with the chassis;

a packet-switched interface capable of receiving a multiplicity of inbound framed packet-data to provide inbound packets and transmitting a multiplicity of outbound framed packet-data comprising outbound packets;

a channeling controller, coupled to the packet-switched interface that channels the inbound packets based on the inbound address information and constructs the outbound packets and channels the outbound packets with the outbound address information, the channeling controller capable of being effectively connected to at least one network via the operating system; and

an authenticator in operative communication with the operating system to allow authentication at the wireless provisioning device;

whereby the user of a mobile computing device connects to the wireless provisioning device without having to first access the Internet.

2. (Original): The wireless provisioning device of claim 1, wherein the channeling controller routes the outbound packets.

3. (Original): The wireless provisioning device of claim 2, wherein the channeling controller routes the outbound packets.

4. (Original): The wireless provisioning device of claim 1, wherein the channeling controller bridges the inbound packets.

5. (Original): The wireless provisioning device of claim 4, wherein the channeling controller bridges the outbound packets.

6. (Original): The wireless provisioning device of claim 1, wherein the operating system of the wireless provisioning device is an open source UNIX based system.

B7. (Previously Amended): A wireless provisioning device, comprising:

a chassis;

at least one network card;

at least one wireless card;

at least one processor;

a LINUX operating system, the operating system operably configured in the chassis to control the at least one network card, the at least one wireless card and the at least one processor;

a packet-switched interface capable of receiving a multiplicity of inbound framed packet-data to provide inbound packets and transmitting a multiplicity of outbound framed packet-data comprising outbound packets;

a channeling controller, coupled to the packet-switched interface that channels the inbound packets based on the inbound address information and that constructs the outbound packets and channels the outbound packets with the outbound address information, the

channeling controller capable of being effectively connected to at least one network via the operating system.

8. (Previously Amended): The wireless provisioning device of claim 1, wherein the wireless provisioning device further comprises a second processor.

9. (Original): The wireless provisioning device of claim 1, wherein the wireless provisioning device further comprises a memory device and a storage device.

10. (Previously Amended): A system for allowing users to securely access public domain area networks via mobile computing devices, comprising:

a plurality of wireless access points;

at least one wireless provisioning device for receiving, authenticating, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one operating system operably configured in the chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point and a carrier structure and where the wireless provisioning device is capable of accommodating multiple connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure connections; and

a security authentication protocol, initiated by the wireless provisioning device, capable of authenticating traffic as it passes through the carrier structure.

15. (Previously Amended): A system for allowing users to securely access public domain area networks via mobile computing devices, comprising:

a plurality of wireless access points;

at least one wireless provisioning device for receiving, authenticating, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one operating system operably configured in the chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point and a carrier structure and where the wireless provisioning device is capable of accommodating multiple connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system, the wireless provisioning device further comprises a directory services member operatively connected to the operating system thereof, which is suitable for maintaining a database directory that stores MAC addresses and billing profiles for those in the system;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure connections; and

a security authentication protocol, initiated by the wireless provisioning device, capable of authenticating traffic as it passes through the carrier structure.

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~~12.~~ (Original): The system of claim ~~11~~, wherein the wireless provisioning device is capable of bridging.

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~~13.~~ (Original): The system of claim ~~12~~, wherein the wireless provisioning device is capable of routing

~~14.~~ (Canceled)

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~~15.~~ (Original): The system of claim ~~11~~, wherein the carrier structure is a suitable antenna for providing bridging solutions that afford the user the ability to place wireless equipment in a wide area network.

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~~16.~~ (Previously Amended): The system of claim ~~11~~, wherein the security authentication protocol is a radius authentication protocol.

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~~17.~~ (Previously Amended): The system of claim ~~11~~, wherein the wireless provisioning device provides proxy service.

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~~18.~~ (Previously Amended): The system of claim ~~11~~, wherein the wireless provisioning device provides firewall service.

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~~19.~~ (Previously Amended): A system, comprising:

a plurality of wireless access points;

at least one wireless provisioning device for receiving, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one operating system operably configured in the

chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point and a carrier structure and where the wireless provisioning device is capable of accommodating multiple connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system, the wireless provisioning device further comprises a directory services member operatively connected to the operating system thereof, which is suitable for maintaining a database directory that stores MAC addresses and billing profiles for those in the system;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure shell telnet connection; and

a security authentication protocol capable of authenticating traffic as it passes through the carrier structure.

20. (Previously Amended): The system of claim 15, wherein the system comprises at least one antenna.

a plurality of wireless access points;

at least one wireless provisioning device for receiving, authenticating, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one operating system operably configured in the chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point

and a carrier structure and where the wireless provisioning device is capable of accommodating multiple connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system, the wireless provisioning device further comprises a directory services member operatively connected to the operating system thereof, which is suitable for maintaining a database directory that stores MAC addresses and billing profiles for those in the system;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure connections; and

a security authentication protocol, initiated by the wireless provisioning device, capable of authenticating traffic as it passes through the carrier structure.

21. (Previously Amended): A system for allowing users to securely access public domain area networks via mobile computing devices, comprising:

a plurality of wireless access points;

at least one wireless provisioning device for receiving, authenticating, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one operating system operably configured in the chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point and a carrier structure and where the wireless provisioning device is capable of accommodating multiple

connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system;

a 2.4 GHz antenna operatively coupled with the wireless provisioning device;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure connections; and

a security authentication protocol, initiated by the wireless provisioning device, capable of authenticating traffic as it passes through the carrier structure.

22. (Previously Amended): The system of claim 15, wherein the operating system of the wireless provisioning device is an open source Unix based system.

23. (Previously Amended): A system, comprising:

a plurality of wireless access points;

at least one wireless provisioning device for receiving, transmitting, and directing data over a plurality of networks and capable of sustaining connectivity between the wireless access points and the wireless provisioning device, the wireless provisioning device comprising a chassis, at least one network card, at least one wireless card, at least one processor, and at least one LINUX operating system operably configured in the chassis and associated with at least one of the plurality of wireless access points for transmitting and receiving data between the wireless access point and a carrier structure and where the wireless provisioning device is capable of accommodating multiple connections back to the wireless access point without requiring rebooting before a new roaming member can be added to the system, the wireless provisioning device

further comprises a directory services member operatively connected to the operating system thereof, which is suitable for maintaining a database directory that stores MAC addresses and billing profiles for those in the system;

a carrier structure communicably positioned between the wireless provisioning device and the plurality of wireless access points for transmitting and receiving data between the wireless provisioning device and the plurality of wireless access points by means of a secure connections; and

a security authentication protocol capable of authenticating traffic as it passes through the carrier structure.

24. (Previously Added): The wireless provisioning device of claim 1, wherein the network card, the wireless card, the processor, the operating system, the packet-switched interface, and the channel controller are operatively disposed within the chassis of the wireless provisioning device.

25. (Previously Added): The wireless provision device of claim 24, wherein the authenticator is operatively disposed within the chassis of the wireless provisioning device.

26. (Previously Added): The wireless provisioning device of claim 1, wherein bandwidth to individual user can be controlled by the wireless provisioning device operating system.

27. (Previously Added): The wireless provisioning device of claim 1, wherein the protocol type of an individual user can be controlled by the wireless provisioning device operating system.

28. (Previously Added): The system of claim 20, wherein there is more than one antenna and the user is capable of logging on and sustain connectivity with the system while transitioning antennas.

29. (Previously Added): The system of claim 20, wherein the user is capable of logging onto and sustaining connectivity with the system while transitioning access points.

30. (New): The wireless provisioning device of claim 23, wherein the network card, the wireless card, the processor, the operating system, the packet-switched interface, and the channel controller are operatively disposed within the chassis of the wireless provisioning device.

31. (New): The wireless provision device of claim 30, wherein the authenticator is operatively disposed within the chassis of the wireless provisioning device.

32. (New): The wireless provisioning device of claim 23, wherein bandwidth to individual user can be controlled by the wireless provisioning device operating system.

33. (New): The wireless provisioning device of claim 23, wherein the protocol type of an individual user can be controlled by the wireless provisioning device operating system.

In response to the above-referenced Office Action, please consider the following remarks.